HISTORY KEPT YES ☒ NO ☐	**ILLINOIS HIGHWAY INFORMATION SYSTEM** **STRUCTURE INFORMATION AND PROCEDURE MANUAL**		
NBIS REQUIRED YES ☐ NO ☒	ITEM NAME **FRACTURE CRITICAL BRIDGE TYPE**	ITEM NO. **92A1** PAGE **1 of 2**	EFF. DATE **07/01/02**

	ISIS		MMIS
RESPONSIBLE FOR UPDATE	**Central Bureau of Bridges & Structures (BBS)**		**N/A**
STRUCTURES	**Local**	**State**	**State**
UPDATE SCREENS	**(3) Fracture Critical**	**(9) Fracture Critical Members**	**N/A**
INQUIRY SCREENS	**Members** **(6) Fracture Critical Members** **(7) Fracture Critical Inspection**		**(4) Fracture Critical Members** **(5) Fracture Critical Inspection**

DESCRIPTION AND PURPOSE OF ITEM

This item identifies a bridge or component type that contains fracture critical members, member components, or other related features.

An example of related features would be the link and pin assemblies in a multiple girder bridge (type code G1).

This item must be coded before a Fracture Critical Member (FCM) inspection can be entered in the system. The procedures is as follows:

- First, the Central Bureau of Bridges and Structures (BBS) must enter a member code on the ISIS FRACTURE CRITICAL MEMBER screen that serves to identify the bridge as having a fracture critical or special feature, and the member code identifies that feature.
- Following the BBS entry, the District can then enter an inspection record for each identified member, using the FRACTURE CRITICAL INSPECTION screens on ISIS for LOCAL bridges and on MMIS for STATE bridges. The member code entered by the District for the inspection must match a member code that had been previously entered into the database by the BBS or the database will not accept the inspection record.

History is retained for each inspection of each member of feature type.

CODE AND SCREEN ENTRY INSTRUCTIONS

A two-digit code.

Enter the appropriate code for the identified type.

Leave blank if item does not apply.

Code	Description
A1	Two Girder System-Suspension Link and Pin
A2	Two Girder System-Suspension Single Pin
A3	Two Girder System-Tension Flanges or Riveted or Bolted Plate Girders
A4	Two Girder System-Bearing Seat of Suspended Spans
A5	Two Girder System-Tension Flange of Rolled Beam
A6	Two Girder system-Tension Flanges of Welded Plate Girders

Code	Description
A7	Two Girder System-Tension Flanges of Lattice Truss Web Girders
B1	Truss System-Eyebar and Pin Tension Members
B2	Truss System-Welded Truss Tension Members
B3	Truss System-Hanger Link and Pin of Suspended Trusses
B4	Truss System-Single Element Members
B5	Truss System-Riveted or Bolted Tension Members
B6	Continuous Truss System-Welded, Riveted or Bolted
C1	Suspension Bridge-Cables
C2	Cable Stayed-Cables
D1	Tied Arches-Welded Box Ties
D2	Tied Arches-Riveted or Bolted Box Ties
D3	Tied Arches-Stiffened Girders
E1	Framed Steel Substructures-Welded or Rolled Pier Cap
E2	Framed Steel Substructures-Riveted or Bolted Pier Cap
E3	Framed Steel Substructures-Welded Pier Column
E4	Framed Steel Substructures-Riveted or Bolted Pier Column
F1	Longitudinal Box Beam-Single Welded Box
F2	Longitudinal Box Beam-Single Riveted or Bolted Box
F3	Double Box Beam-Welded, Riveted, or Bolted
*G1	Multi Girder Systems-Suspension Links and Pins
*G2	Multi Girder Systems-Suspension Single Pins
X1	Other

* Related bridge types

NOTE: The types are ranked by criticality.